## IAP13 Rec'd PCT/PTO 28 DEC 2006

PTO-1390 (Rev. 07-2005)
Approved for use through 03/31/2007. OMB 0651-0021
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL LETTER TO	THE UNITED STATES	ATTORNEY'S DOCKET NUMBER	
DESIGNATED/ELECTED	OFFICE (DO/EO/US)	TAW-013US U.S. APPLICATION NO. (if known, see 37 CFR 1.5)	
CONCERNING A SUBMISSION		10/576241	
INTERNATIONAL APPLICATION NO. PCT/JP2004/014610	INTERNATIONAL FILING DATE 4 October 2004	PRIORITY DATE CLAIMED  15 October 2003	
TITLE OF INVENTION	1 00:0501 2001	70 000000	
POLYMER ACTUATOR APPLICANT(S) FOR DO/EO/US			
Tatsuya HATTORI et al.			
Applicant herewith submits to the United Sta	tes Designated/Elected Office (DO/EO	/US) the following items and other information:	
1. This is a <b>FIRST</b> submission of item	s concerning a submission under 35 U	.S.C. 371.	
	NT submission of items concerning a s		
3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.			
4. The US has been elected (Article 3	11).		
5. A copy of the International Applicat	ion as filed (35 U.S.C. 371 (c)(2))		
a. is attached hereto (required onl	ly if not communicated by the Internation	onal Bureau).	
b. has been communicated by the			
	on was filed in the United States Recei		
	the International Application as filed (3	5 U.S.C. 37 1(c)(2)).	
a. is attached hereto.			
b. has been previously submitted		1 10 (25 11 0 0 271(2)(2))	
	nternational Application under PCT Arti		
	only if not communicated by the Interna	uonai bureau).	
b. have been communicated by the International Bureau.  c. have not been made; however, the time limit for making such amendments has NOT expired.			
c. have not been made; however, d. have not been made and will no		. ·	
	the amendments to the claims under F	PCT Article 19 (35 U.S.C. 371(c)(3)).	
9. An oath or declaration of the invent			
	the annexes of the International Prelim	•	
Article 36 (35 U.S.C. 371(c)(5)).	are armexes of the international Freint	many Examination Report and Fire	
Items 11 to 20 below concern docur	ment(s) or information included:		
11. An Information Disclosure Staten	ment under 37 CFR 1.97 and 1.98.		
12. An assignment document for recor	rding. A separate cover sheet in compl	iance with 37 CFR 3.28 and 3.31 is included.	
13. A preliminary amendment.			
14 An Application Data Sheet under	37 CFR 1.76.		
15. A substitute specification.			
16. A power of attorney and/or chang			
17. A computer-readable form of the	sequence listing in accordance with F	CT Rule 13 <i>ter</i> .2 and 37 CFR 1.821 – 1.825.	
18. A second copy of the published Ir	nternational Application under 35 U.S.	C. 154(d)(4).	
19. A second copy of the English lang	guage translation of the international a	application under 35 U.S.C. 154(d)(4).	

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5)  10/576241  INTERNATIONAL APPLICATION NO. PCT/JP2004/014610		ATTORNEY'S DOCKET NUMBER TAW-013US					
20. X Other items or information:  Response to Notification of Corrected Papers under 35 U.S.C. 371 in the DO/EO/US Submission of Drawings 8 sheets of Formal Drawings (Figs. 1-12)  Copy of 371 Formalities Letter  Return Receipt Postcard							
The follo	owing fees have	e been submitt	ed			CALCULATION	S PTO USEONLY
21. Basic national fee (37 CFR 1.492(a)) \$300			\$300	\$			
22. Examination fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)			\$				
23. Search fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0  Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100  International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400  All other situations \$500			\$				
	TOTAL OF 21, 22	? and 23 =				\$ 0.0	0
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.							
Total Sheets	Extra Sheets		additional 50 or fraction up to a whole number)	·	RATE		
- 100 =			x \$250.00	\$			
Surcharge of \$13 after the date of c	0 for furnishing an commencement of	y of the search fee the national stage	e, examination fee, or the (37 CFR 1.492(h)).	e oath	or declaration	\$	
CLAIMS		MBER FILED	NUMBER EXTRA	ļ	RATE		
Total clain		- 20 =		×			
Independent of		- 3 =		X   +			
MOETIFEE DEFE	ENDENT CLAIM(S	) (II applicable)	TOTAL OF A		CALCULATIONS -	<b>e</b> 0.0	
TOTAL OF ABOVE CALCULATIONS = \$ 0.00  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.			0				
SUPTOTAL		SUBTOTAL =	\$ 0.0	0			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).							
TOTAL NATIONAL FEE			L NATIONAL FEE =	\$	0.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$				
\$							
			то	TAL F	EES ENCLOSED =	\$	0.00
						Amount to be refunded:	\$
						Amount to be charged	\$

PTO-1390 (Rev. 07-2005) Approved for use through 03/31/2007. OMB 0551-0021
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. A check in the amount of \$ to cover the above fees is enclosed. in the amount of \$ to cover the above fees. 0.00 Please charge my Deposit Account No. A duplicate copy of this sheet is enclosed. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 12-0080 . A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038 NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed an granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: Anthony A. Laurentano LAHIVE & COCKFIELD, LLP One Post Office Square Anthony A. Laurentano Boston, Massachusetts 02109-2127 (617) 227-7400 December 28, 2006 38,220 CUSTOMER NUMBER: 00959 REGISTRATION NUMBER

Docket No.: TAW-013US

(PATENT)

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Tatsuya Hattori et al.

Application No.: 10/576,241

Confirmation No.: 8875

Filing Date of

Art Unit: N/A

International Application: 4 October 2004

For: POLYMER ACTUATOR

Examiner: Not Yet Assigned

# RESPONSE TO NOTIFICATION OF CORRECTED PAPERS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In response to the Notification of Corrected Papers Under 35 U.S.C. 371, mailed December 7, 2006, Applicants respectfully submit 8 sheets of Formal Drawings (Figs. 1-12), as well as a copy of the 371 Formalities Letter.

Dated: December 28, 2006

Respectfully submitted,

Anthony A. Laurentano Registration No. 38,220

LAHIVE & COCKFIELD, LLP

One Post Office Square

Boston, Massachusetts 02109-2127

(617) 227-7400

(617) 742-4214 (Fax)

Attorney/Agent For Applicants

Docket No.: TAW-013US

(PATENT)

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Tatsuya Hattori et al.

Application No.: 10/576,241

Confirmation Number: 8875

Filing Date of

Art Unit: N/A

International Application: 4 October 2004

For: POLYMER ACTUATOR

Examiner: Not Yet Assigned

#### **SUBMISSION OF DRAWINGS**

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Submitted herewith is one set (8 sheets, twelve figures) of drawings for filing in the above-identified patent application. Kindly substitute the enclosed drawings for the drawings submitted with the originally filed application.

Dated: December 28, 2006

Respectfully submitted,

Anthony A. Laurentano Registration No. 38,220

LAHIVE & COCKFIELD, LLP

One Post Office Square

Boston, Massachusetts 02109-2127

(617) 227-7400

(617) 742-4214 (Fax)

Attorney/Agent For Applicants





#### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE UNITED STATES DEFAURING OF COMMIT United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450 www.uspto.gov

I.A. FILING DATE

10/04/2004

U.S. APPLICATION NUMBER NO

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/576,241

Tatsuya Hattori

**TAW-013US** INTERNATIONAL APPLICATION NO.

PRIORITY DATE

10/15/2003

PCT/JP04/14610

00959 LAHIVE & COCKFIELD, LLP ONE POST OFFICE SQUARE

BOSTON, MA 02109-2127

Feb. 7,2007 - Correct

**CONFIRMATION NO. 8875** 

**371 FORMALITIES LETTER** 

OC000000021505193\*

Date Mailed: 12/07/2006

### NOTIFICATION OF CORRECTED PAPERS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 04/13/2006
- English Translation of the IA filed on 04/13/2006
- Copy of the International Search Report filed on 04/13/2006
- Copy of IPE Report filed on 04/13/2006
- Preliminary Amendments filed on 04/13/2006
- Information Disclosure Statements filed on 04/13/2006
- Oath or Declaration filed on 04/13/2006
- U.S. Basic National Fees filed on 04/13/2006
- Assignment filed on 04/13/2006
- Priority Documents filed on 04/13/2006
- Substitute drawings in compliance with 37 CFR 1.84 because:
  - o drawing figures contain text that is not in English (including, for example, a flow chart that was originally not in English that has been marked up to include the English text) see 37 CFR 1.84(p)(2) and 37 CFR 1.52(d)(1);

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.

#### https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <a href="http://www.uspto.gov/ebc.">http://www.uspto.gov/ebc.</a>

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

CHARITTA A BURT

Telephone: (703) 308-9140 EXT 207

#### PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/576.241	PCT/JP04/14610	TAW-013US

### Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV 956 465 764 US in an envelope addressed to:

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

on	December 28, 2006	
· ·	Date	_

Anthony Journ	inturio
Sign	ature
Anthony A.	Laurentano
Typed or printed name of	person signing Certificate
38,220	(617) 227-7400
Registration Number, if applicable	Telephone Number

Note: E

Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Transmittal Letter to the United States Designated-Elected Office (3 pages)

Response to Notification of Corrected Papers under 35 U.S.C. 371 (1 page)

Submission of Drawings (1 page)
7 sheets Formal Drawings (Figs. 1-12)
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Certificate of Express Mailing (1 page)
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